

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. FORFLOW.1CP6C1	APPLICATION NO. Unknown
	APPLICANTS Steven F. Bolling, M.D., et al.	
	FILING DATE Herewith	GROUP 3782

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
CHL	1	6,610,004	8/26/03	Viole et al.	600	16	
	2	6,558,356	7/1998	Barbut	604	173	
	3	6,390,969	5/21/02	Bolling et al.	600	16	
	4	6,245,045 B1	6/2001	Stratienko	604	164,13	
	5	6,228,052 B1	5/2001	Okada et al.	604	26.01	
	6	6,224,540	5/01/01	Lederman et al.	600	37	
	7	6,221,103	4/24/01	Melvin	623	3.1	
	8	6,190,408	2/20/01	Melvin	623	3.1	
	9	6,183,411	2/06/01	Mortier et al.	600	16	
	10	6,085,754	7/11/00	Alferness et al.	128	898	
	11	5,964,694	10/12/99	Siess et al.	600	17	
	12	5,941,813	8/24/99	Sievers et al.	600	16	
	13	5,911,685	6/15/99	Siess et al.	600	16	
	14	5,851,174	12/22/98	Jarvik et al.	600	16	
	15	5,824,070	10/20/98	Jarvik	623	3.13	
	16	5,785,686	7/1998	Runge, Thomas M.	604	96.01	
	17	5,749,855	05/12/98	Reitan	604	151	
	18	5,746,575	05/05/98	Westphal et al.	415	206	
	19	5,584,804	12/17/96	Klatz et al.	604	24	
	20	5,562,595	10/08/96	Neisz	600	16	
	21	5,533,958	6/9/96	Wilk	600	18	
	22	5,514,073	5/7/96	Miyata et al.	600	18	
	23	5,511,958	04/30/96	Chen et al.	417	412	
	24	5,505,710	4/1996	Dorsey, III	604	158	
	25	5,503,615	04/30/96	Goldstein	600	16	
✓	26	5,453,076	09/26/95	Kiyota et al.	600	18	
CHL	27	5,437,601	8/1/95	Runge	600	16	

EXAMINER <i>Carl H. Fugro</i>	DATE CONSIDERED <i>12/11/04</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. FORFLOW.1CP6C1	APPLICATION NO. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANTS Steven F. Bolling, M.D., et al.	
		FILING DATE Herewith	GROUP 3762

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
CHL	28	5,433,731	7/18/95	Hoegnelid et al.	607	5	
	29	5,429,584	07/04/95	Chiu	600	18	
	30	5,413,549	5/9/95	Leschinsky	600	18	
	31	5,376,113	12/27/97	Jansen et al.	623	2.19	
	32	5,374,239	12/20/94	Mischenko	604	8	
	33	5,352,180	10/04/94	Candelon et al.	600	17	
	34	5,346,458	09/13/94	Affeld	600	16	
	35	5,332,403	07/26/94	Kolff	623	3.21	
	36	5,300,113	04/05/94	Arpesella et al.	623	3.21	
	37	5,290,227	3/1/94	Pasque	600	16	
	38	5,273,518	12/28/93	Lee et al.	600	16	
	39	5,267,940	12/07/93	Moulder	600	16	
	40	5,263,978	11/23/93	Kaufman et al.	623	3.17	
	41	5,211,659	05/18/93	Strimling et al.	623	3.17	
	42	5,176,619	01/05/93	Segalowitz	600	18	
	43	5,171,207	12/15/92	Whalen	600	16	
	44	5,169,379	12/08/92	Freed et al.	600	18	
	45	5,169,378	12/08/92	Figuera	600	16	
	46	5,147,388	09/15/92	Yamazaki	623	3.13	
	47	5,147,281	09/15/92	Thornlon et al.	600	16	
	48	5,133,744	07/28/92	Ramos Martinez	623	3.21	
	49	5,131,905	07/21/92	Grooters	600	16	
	50	5,129,878	07/14/92	Takano et al.	600	18	
	51	5,116,564	05/26/92	Jansen et al.	264	255	
	52	5,098,370	03/24/92	Rahat et al.	600	16	
	53	5,092,844	03/03/92	Schwartz et al.	604	151	
CHL	54	5,089,017	02/18/92	Young et al.	623	3.11	

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
CHL	55	5,069,662	12/03/91	Bodden	604	5.01	
	56	5,059,167	10/19/91	Lundquist et al.	600	17	
	57	5,020,516	06/04/91	Biondi et al.	601	44	
	58	4,995,857	02/26/91	Arnold	600	16	
	59	4,995,856	02/26/91	Heindl et al.	604	8	
	60	4,994,078	02/19/91	Jarvik	623	3.14	
	61	4,968,293	11/06/90	Nelson	600	16	
	62	4,957,504	09/18/90	Chardack	623	3.14	
	63	4,927,407	05/22/90	Dorman	600	16	
	64	4,908,012	03/13/90	Moise et al.	600	16	
	65	4,906,229	03/06/90	Wampler	600	16	
	66	4,902,273	02/20/90	Choy et al.	600	18	
	67	4,902,272	02/20/90	Milder et al.	600	18	
	68	4,895,150	01/23/90	Isaacson et al.	623	3.27	
	69	4,883,462	11/28/89	Williamson et al.	604	540	
	70	4,872,874	10/10/89	Taherin	128	898	
	71	4,861,330	08/29/89	Voss	600	18	
	72	4,838,889	06/13/89	Kolff	623	3.21	
	73	4,822,357	04/18/89	Forster et al.	623	3.18	
	74	4,771,765	09/20/88	Choy et al.	600	18	
	75	4,759,760	07/26/88	Snapp Jr.	623	3.12	
	76	4,756,302	07/12/88	Portner et al.	600	17	
	77	4,719,921	01/19/88	Chirife	607	23	
	78	4,697,574	10/6/87	Karcher et al.	600	17	
	79	4,690,134	09/01/87	Snyders	601	153	
✓	80	4,688,998	08/25/87	Olsen et al.	417	356	
CHL	81	4,685,446	08/11/87	Choy	600	18	

EXAMINER	Carl H. Lopez	DATE CONSIDERED	12/11/04
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	APPLICANTS Steven F. Bolling, M.D., et al.	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
CHL	82	4,666,443	05/19/87	Portner	623	3.12	
	83	4,625,712	12/02/86	Wampler	600	16	
	84	4,611,578	05/27/86	Helmes	600	19	
	85	4,573,997	03/04/86	Wisman et al.	623	3.16	
	86	4,569,332	2/11/86	Schiff et al.	600	18	
	87	4,552,522	11/12/85	Polaschegg et al.	425	182	
	88	4,546,759	10/15/85	Solar	600	18	
	89	4,522,195	06/11/85	Schiff	600	18	
	90	4,459,977	07/17/84	Pizon et al.	600	17	
	91	4,457,673	07/03/84	Conley et al.	417	412	
	92	4,407,271	10/04/83	Schiff	600	17	
	93	4,384,829	05/24/83	Conely et al.	417	412	
	94	4,302,854	12/01/81	Runge	623	3.11	
	95	4,240,409	12/23/80	Robinson et al.	600	16	
	96	4,167,046	09/11/79	Portner et al.	623	3.17	
	97	4,154,227	05/15/79	Krause et al.	600	18	
	98	4,143,616	03/13/79	Bible	116	266	
	99	4,135,496	01/23/79	Chazov et al.	600	17	
	100	4,080,958	3/19/78	Bregman et al.	600	16	
	101	4,077,394	03/07/78	McCurdy	600	18	
	102	4,051,840	10/4/77	Kantrowitz et al.	600	18	
	103	4,047,849	09/13/77	Clay	417	384	
	104	4,034,742	07/12/77	Thoma	600	17	
	105	4,004,299	01/25/77	Runge	623	3.18	
	106	3,964,479	06/22/76	Boag et al.	604	123	
	107	3,939,820	02/24/76	Grayzel	600	18	
CHL	108	3,885,251	05/27/75	Pedrosa	623	3.17	

EXAMINER	<i>Carl H. Layne</i>	DATE CONSIDERED	<i>12/11/04</i>
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	APPLICANTS Steven F. Bolling, M.D., et al.	
	FILING DATE Herewith	GROUP 3762

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
CHL	109	3,835,864	9/17/79	Rasor et al.	607	36	
	110	3,692,018	09/19/72	Goetz et al.	600	18	
	111	3,592,184	07/13/71	Watkins et al.	604	192	
	112	3,017,885	1/19/62	Robicsek	604	6.1	
	113	2,935,068	05/30/60	Donaldson	604	17.5	
CHL	114	2,876,769	03/10/59	Cordova	422	4.5	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
CHL	115	2 174 151A	01/10/85	UK	F04B	45/00	✓
	116	<del>SU 1,303,165 A2</del>	<del>1/19/85</del>	<del>Russia</del>			
CHL	117	0,232,074	01/22/87	Europe	A61M	25/00	✓
CHL	118	0 411 605 A1	01/08/90	EPO	A61M	25/00	✓
CHL	119	0 405 749 A1	05/25/90	EPO	A61M	1/10	✓
CHL	120	WO 94/05347	03/17/94	WO	A61M	1/12	✓
CHL	121	WO 97/15228	05/01/97	WO	A61B	5/00	✓
CHL	122	WO 98/14225	03/10/97	PCT	A61M	1/10	✓

CHL  
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
CHL	123	JAMA, January 8, 1968. Vol. 203. No 2, Initial Clinical Experience with Intra-aortic Balloon Pumping in Cardiogenic Shock. PP 113-118
CHL	124	Article: Magnetically Suspended Vad. PP M361, 363, 364.
CHL	125	Article: Mechanical Auxillary Ventricle. PP M345-344
CHL	126	Article: A Mechanical Auxiliar Ventricle. PP M340-344.
CHL	127	Patent Server: Patent Search Reports: 15 PP total.
CHL	128	Patent Server: Search Results: 30 PP total
CHL	129	Article: Effect of Stationary Guiding Vanes on Improvement of the Washout Behind the Rotor in Centrifugal Blood Pumps: PP M220-224

EXAMINER	Carl H. Layman	DATE CONSIDERED	12/11/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANTS Steven F. Bolling, M.D., et al.	
		FILING DATE Herewith	GROUP 3762

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
<i>Chz</i>	130	Article: An Implantable Seal-less Centrifugal Pump: Comparison of Ultrasonic Transit Time and Ultrasonic Doppler Systems: PP 808-815
	131	Patent Server: Search Reports: 32 PP total
	132	Article: George J. Magovern, Jr. MD. Use of Biomedics Pump in Postoperative Circulatory Support: 6PP total
	133	Article: Bruce J. Shook. MS Eng. The Abiomed BVS 5000 Biventricular Support System. 6 PP total
	134	Article: Valluvan Jeavanandam. MD. Et al. TCI Heartmate Left Ventricular Assist System: Results with Bridge to Transplant and Chronic Support: 5PP total
	135	Article: O.H. Frazier, MD. Long-Term Ventricular Support with the Heartmate in Patients Undergoing Bridge-to-Transplant Operation: 3PP total
	136	Article: Narayanan Ramasamy. PhD. Et al.. Novacor LVAS: Results with Bridge to Transplant and Chronic Support: 3PP total.
	137	Article: Robert W. Emery. MD et al. Uses of Mechanical Circulatory Assist Devices at the Minneapolis Heart Institute: 5PP total
	138	Article: Lawrence R. McBride. MD et al. Anticoagulation in Patients with Ventricular Assist Devices: 1Pg
	139	Article: Roque Pifarre, MD et al. Bridge to Transplantation with the Total Artificial Heart: The Loyal Experience. 5PP total
	140	Article: Pratap S. Khanwilkar. MS. MBA et al. Future Prospects for a Totally Implantable Artificial Heart: 8 PP total
	141	Article: Concepts in the Application of Pneumatic Ventricular Assist Devices for Ischemic Myocardial Injury. PP 162-168
	142	Article: Long-Term Left Ventricular Assist Device Use Before Transplantation: PP M530-M534
	143	Article: In Vitro Characterization of a Magnetically Suspended Continuous Flow Ventricular Assist Device: PP M359-M360
	144	Article: Estimation of Left Ventricular Function in Patients With a Left Ventricular Assist device: M544-551
	145	Article: Long Term Follow Up of Survivors of Postcardiotomy Circulatory Support. Ruzevich et al.; 4535, A.S.A.I.O. Transactions 34 (1988) April-June, No. 2, Hagerstown, MD, USA. PP 16-124
	146	Article: Hemodynamic Effects of the Concomitant Use of Intra-Aortic Balloon Pumping and Venoarterial Bypass without Oxygenation in Cardiogenic Shock. Takamoto et al. Intra-Aortic Pumping & Venoarterial Bypass. Vol. 19. No. 3. May-June 1972. PP 244-248.
	147	Article: Mechanical Cardiopulmonary Support During Arteriography and Surgical Correction of Coronary Insufficiency Producing Myocardial Infarction with Cardiogenic Shock; Carlson et al. Journal of the Association for the Advancement of Medical Instrumentation. Vol. 6, No. 3. May-June 1972; PP 244-248.
	148	Article: The Sternotomy Hemopump, A Second Generation Intraarterial Assist Device. PP M218-220, 223.
	149	Article: Transarterial Closed-Chest Left Ventricular (TaCLV) Bypass. PP 386-390.
	150	Article: First Clinical Application of transarterial Closed-Chest Left Ventricular (TaCLV) Bypass. PP 386-391.
	151	Article: Implantable Left Ventricular Assist Device. PP 1522-1533.
	152	Article: Effects of Partial and Complete Unloading of The Failing Left Ventricle by Transarterial Left Heart Bypass. PP 865-872.
	153	Article: Hydrodynamic Properties of a New Percutaneous Intra-aortic Axial Flow Pump. Reitan et al. ASAIO Journal 2000. pp. 323-328.
<i>Chz</i>	154	Journal of the Association for the Advancement of Medical Instrumentation, Vol. 10, No. 5, Sept.-Oct 1976, p. 215; Medical Instrumentation Editorial
	155	Dormandy, Goetz, and Kripke; Surgery, Feb. 1969, Vol. 65, No. 2, pp. 311-320; Hemodynamics and coronary blood flow with counterpulsation

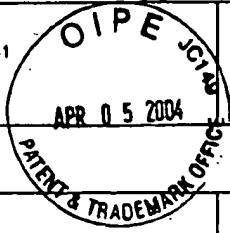
EXAMINER <i>Carl H. Layton</i>	DATE CONSIDERED <i>12/16/84</i>
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	APPLICANTS Steven F. Bolling, M.D., et al.	
	FILING DATE Herewith	GROUP 3762

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
<i>CH</i>	156	The New England Journal of Medicine, Article: Treatment of Severe Fluid Overload by Ultrafiltration, Vol. 291, No. 15, Oct. 10, 1974, pp. 747-751

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EXAMINER <i>Carl H. Layno</i>	DATE CONSIDERED <i>12/11/04</i>
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. F0RFLOW.1CP6C1		APPLICATION NO. 107729,026
	APPLICANT Bolling, et al.		
	FILING DATE December 5, 2003	GROUP Unknown 3762	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
Ctlz	1	US 6,200,260	03/13/01	Bolling	600	16	
	2	US 6,299,575	10/09/01	Bolling	600	16	
	3	US 6,387,037	05/14/02	Bolling, et al.	600	16	
	4	US 6,390,969	05/21/02	Bolling, et al.	600	16	
	5	US 6,428,464	08/06/02	Bolling	600	16	
	6	US 6,488,662	12/03/02	Sirimanne	604	164.01	
	7	US 6,610,004	08/26/03	Viole, et al.	600	16	
Ctlz	8	US 6,685,621	02/03/04	Bolling, et al.	600	16	

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
Ctlz	9	WO 99/19010	04/22/99	PCT	A61M	1/10	✓	
Ctlz	10	WO 00/61207	10/19/00	PCT	A61M	1/10	✓	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
Ctlz	11	US Patent Application Publication No. 2002/0111577 Sirimanne, et al. (08/15/02)
Ctlz	12	US Patent Application Publication No. 2002/0188166 Viole, et al. (12/12/02)
Ctlz	13	US Patent Application Publication No. 2002/0188167 Viole, et al. (12/12/02)
Ctlz	14	US Patent Application Publication No. 2003/0069468 Bolling, et al. (04/10/03)
Ctlz	15	US Patent Application Publication No. 2003/0144628 Sirimanne (07/03/03)

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EXAMINER	Carl H. Loyce	DATE CONSIDERED	12/16/04
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